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L3	10975	726/23 or 713/176 or 713/182 or 380/229 or 726/22 or 713/201	US-PGPUB; USPAT	OR	OFF	2006/08/25 12:26
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1 [Automated cross-organisational trust establishment on extranets](#)

Richard Au, Mark Looi, Paul Ashley

January 2001 **Australian Computer Science Communications , Proceedings of the workshop on virtual enterprises ITVE '01 , Proceedings of the workshop on Information and Communications Technology Enterprises ITVE '01**, Volume 23 Issue 6

**Publisher:** IEEE Computer Society , IEEE Computer Society , IEEE Computer Society Press

Full text available: [pdf\(779.60 KB\)](#) [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Trust management is an important aspect of information security in an organisation. It involves among people, computers and the organisational system. It becomes even more complex in the where cross-organisational activities are involved. This paper presents a new paradigm for external organisations for external users on extranets. In our approach, the authorities of organisations

**Keywords:** extranet, security server, trust agent, trust distribution, trust establishment, trust

2 [Groupware: some issues and experiences](#)

Clarence A. Ellis, Simon J. Gibbs, Gail Rein

January 1991 **Communications of the ACM**, Volume 34 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(7.22 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [A buddy model of security for mobile agent communities operating in pervasive scenarios](#)

John Page, Arkady Zaslavsky, Maria Indrawan

January 2004 **Proceedings of the second workshop on Australasian information security, Intelligence, and Software Internationalisation - Volume 32 ACSW Frontiers**

**Publisher:** Australian Computer Society, Inc.

Full text available: [pdf\(344.53 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

This paper examines the security aspects of different pervasive scenarios involving agent communication systems (MAS). It describes the motivation and the objectives behind the development of these the security vulnerabilities, which arise within them. To counter these vulnerabilities, the paper for the agent community. In this model, every agent protects its neighbour within the community

**Keywords:** community, malicious, mobile agents (MA), security, vulnerability

4 Security enhanced mobile agents

 Vijay Varadharajan  
November 2000 **Proceedings of the 7th ACM conference on Computer and communications :**  
**Publisher:** ACM Press  
Full text available:  pdf(393.46 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index to](#)

**Keywords:** mobile agents, secure agent based application, security model



5 (How) can mobile agents do secure electronic transactions on untrusted hosts? A survey of current solutions

 Joris Claessens, Bart Preneel, Joos Vandewalle  
February 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 1  
**Publisher:** ACM Press  
Full text available:  pdf(197.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This article investigates if and how mobile agents can execute secure electronic transactions on security issues of mobile agents is first given. The problem of untrusted (i.e., potentially malicious) hosts and appears to be the most difficult to solve. The current approaches to counter this problem at secure electronic transactions is discussed. In particular, a state-of-the-art survey of mobile agents

**Keywords:** Mobile agent security, electronic transactions, malicious hosts

6 Computer security: Grammar based off line generation of disposable credit card numbers

 Abhishek Singh, Andre L. M. dos Santos  
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**  
**Publisher:** ACM Press  
Full text available:  pdf(723.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)



Context free grammars present the desirable cryptographic property that it is easy to generate strings from a grammar, however it is hard to identify a grammar given only the strings generated by it. The authors propose a protocol proposed in this paper makes use of context free grammars. This authentication protocol involves offline generation and validation of a disposable credit card number. The proposed protocol can

7 Multi-agent systems and social behavior: A user-centric anonymous authorisation framework

 Richard Au, Harikrishna Vasanta, Kim-Kwang Raymond Choo, Mark Looi  
March 2004 **Proceedings of the 6th international conference on Electronic commerce IC**  
**Publisher:** ACM Press  
Full text available:  pdf(291.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

A novel user-centric authorisation framework suitable for e-commerce in an open environment is proposed. The approach allows a user to gain access rights anonymously from various service providers who have no direct relationships. Trust establishment is achieved by making use of referrals from external third parties. *Attribute Certificates*. The concepts of *One-task Authorisation Key* and *Binding Signature* are proposed.

8 Integrating security in a large distributed system

 M. Satyanarayanan  
August 1989 **ACM Transactions on Computer Systems (TOCS)**, Volume 7 Issue 3  
**Publisher:** ACM Press  
Full text available:  pdf(2.90 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Andrew is a distributed computing environment that is a synthesis of the personal computing and

mature, it is expected to encompass over 5,000 workstations spanning the Carnegie Mellon University. This paper examines the security issues that arise in such an environment and describes the mechanisms that support them. These mechanisms include the logical and physical separation of servers and clients, support for roaming, and the ability to dynamically reconfigure the network.

9 Vision & challenges: A peer-to-peer approach to wireless LAN roaming

 Elias C. Efstathiou, George C. Polyzos  
September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and hotspots**

**Publisher:** ACM Press

Full text available:  [pdf\(279.70 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We make the case for a Global Confederation of Peer-to-Peer (P2P) Wireless Local Area Network (P2PWNC) is a community of administrative domains that offer wireless Internet access to their users. The ubiquitous Internet access that the roaming users of these domains could enjoy comes at the cost of providing access to visitors. Existing roaming schemes utilize central authorities or bilateral agreements between domains.

**Keywords:** P2P, WISP, WLAN, Wi-Fi, incentives, mixes, privacy, roaming

10 Agents, interactions, mobility, and systems (AIMS): Using mobile agents as roaming security of hosts and networks

 Marco Carvalho, Thomas Cowin, Niranjan Suri, Maggie Breedy, Kenneth Ford  
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

**Publisher:** ACM Press

Full text available:  [pdf\(307.45 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

This paper discusses the design and implementation details of MAST (Mobile Agent-based Security) network security approach. MAST has been designed to support flexible and customizable network security. This paper focuses on the implementation details and security aspects of MAST's components, services, and protocols.

**Keywords:** IHMC, MAST, concept maps, knowledge models, mobile agents, network security

11 Trust-based authorization: Traust: a trust negotiation-based authorization service for open

 Adam J. Lee, Marianne Winslett, Jim Basney, Von Welch  
June 2006 **Proceedings of the eleventh ACM symposium on Access control models and mechanisms**

**Publisher:** ACM Press

Full text available:  [pdf\(222.72 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

In recent years, trust negotiation (TN) has been proposed as a novel access control solution for environments in which resources are shared across organizational boundaries. Researchers have shown that TN can be supported in these environments by developing a number of policy languages and strategies for TN which have been developed. Further, existing protocols, such as TLS, have been altered to interact with prototype TN systems.

**Keywords:** attribute-based access control, credentials, trust negotiation

12 Session 4: A framework for mobile-agents embodied in X3D networked virtual environments

 Yoann Fabre  
March 2003 **Proceeding of the eighth international conference on 3D Web technology**

**Publisher:** ACM Press

Full text available:  [pdf\(332.92 KB\)](#)



Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

In this paper we present a VRML oriented framework that aims to capture the key notions that are involved in the design of multiuser and autonomous creatures. Our results can be understood in two ways. One can view the framework as an effort to identify general concepts with special emphasis on separation of concerns and the ability to dynamically reconfigure the network.

*pattern*. One can also view the framework as a glue between the most recent technologies invol

**Keywords:** Virtual Reality Modeling Language (VRML), mobile agent, multi-user technology, se



13 Temporal sequence learning and data reduction for anomaly detection

 Terran Lane, Carla E. Brodley  
August 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issi  
**Publisher:** ACM Press  
Full text available:  [pdf\(628.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#)


The anomaly-detection problem can be formulated as one of learning to characterize the behavi network in terms of temporal sequences of discrete data. We present an approach on the basis techniques. To cast the anomaly-detection task in an IBL framework, we employ an approach th of discrete, unordered observations into a metric space via a similarity measure that encodes in

**Keywords:** anomaly detection, clustering, data reduction, empirical evaluation, instance based profiling

14 How responsibility modelling leads to security requirements

 Ros Strens, John Dobson  
August 1993 **Proceedings on the 1992-1993 workshop on New security paradigms**  
**Publisher:** ACM Press  
Full text available:  [pdf\(716.06 KB\)](#) Additional Information: [full citation](#), [citing](#)




15 Innovation, management & strategy: Virtual web services: application of software agents to

 Jarogniew Rykowski, Wojciech Cellary  
March 2004 **Proceedings of the 6th international conference on Electronic commerce IC**  
**Publisher:** ACM Press  
Full text available:  [pdf\(292.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)



In this paper we propose an application of software agents to provide *Virtual Web Services*. A V collection of several real and/or virtual Web Services, and public and private agents, accessed b single real Web Service. A Virtual Web Service allows unrestricted comparison, information mer coming from different sources and in different forms. *Web Services* are accessed according to t

**Keywords:** customization, personalization, software agents, web services

16 Computing curricula 2001

 September 2001 **Journal on Educational Resources in Computing (JERIC)**  
**Publisher:** ACM Press  
Full text available:  [pdf\(613.63 KB\)](#)  [html\(2.78 KB\)](#) Additional Information: [full citation](#), [references](#), [citing](#), [index te](#)

17 Security issues in ATM networks

 Danai Patiyooot, S. J. Shepard  
October 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 4  
**Publisher:** ACM Press  
Full text available:  [pdf\(1.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper presents a survey of existing solutions aiming to secure communications over ATM n

security services offered, their placement within ATM protocol reference model, the mechanism techniques to provides synchronisation and key exchange protocol. Additionally, this paper prop


**Keywords:** ATM, security

**18** Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on**


**Publisher:** IBM Press

Full text available:  [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on pro to obtain a better understanding of the execution of the application. The visualization tool we us developed at the University of Waterloo. However, these diagrams are often very complex and i desired overview of the application. In our experience, such tools display repeated occurrences

**19** Some thoughts on agent trust and delegation

 Yuh-Jong Hu

May 2001

**Proceedings of the fifth international conference on Autonomous agents**


**Publisher:** ACM Press

Full text available:  [pdf\(339.21 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#)

In this paper, we are going to show how to build up agent-oriented Public Key Infrastructure(PK standards. A variety of delegation mechanisms for agents will be demonstrated under this agen include: chain-ruled, threshold, and conditional. The lack of agent security management standa trust and delegation in legalized manner so we proposed several new communicative acts to sal

**20** Testbed directions and experience: PlanetLab: an overlay testbed for broad-coverage serv

 Brent Chun, David Culler, Timothy Roscoe, Andy Bavier, Larry Peterson, Mike Wawrzoniak, Mic Bov

July 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(158.92 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

PlanetLab is a global overlay network for developing and accessing broad-coverage network ser geographically distributed nodes, connected by a disverse collection of links. PlanetLab allows r and continuously, each in its own slice of PlanetLab. This paper discribes our initial implementat mechanisms used to impelment virtualization, and the collection of core services used to manag

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